

AVENUE 364 BRIDGE

OVER COTTONWOOD CREEK



PROJECT TEAM

Engineering Manager: Benjamin Ruiz Jr., Tulare County

Project Manager: Jason Vivian, Tulare County

Project Engineer: Sukhjinder Brar, Tulare County

Hydraulics Engineer: Chris Sewell, WRECO

Geotechnical Engineer: Neva Popenoe, Kleinfelder

Environmental Consultant: Erinn Peterson, GPA Consulting

Regulatory Agency Permitting: Aaron Bock, Tulare County



This project consists of the replacement of an existing single lane, 103-ft long, three-span bridge consisting of a reinforced concrete deck on continuous steel girders supported by precast concrete piles at the piers and reinforced concrete seat type abutments. The existing structure was flagged by Caltrans as structurally deficient due to significant pattern cracking on the concrete deck as well as moderate transverse and longitudinal soffit cracks. This bridge is also functionally obsolete due a combination of the narrow bridge geometry and moderate average daily traffic. The replacement structure will consist of a 5-span reinforced concrete post-tensioned flat slab structure founded on cast-in-place or precast concrete driven piles. A lengthened structure, designed to support all highway legal loads and of sufficient width to carry two lanes of traffic, will span the full width of the channel which will help to improve the hydraulic capacity at the structure. The new structure will incorporate open-type concrete barriers with metal beam guard railing at the bridge approaches. Avenue 364 will be closed during construction and traffic will be rerouted to Avenue 368 (approx. 0.5 miles upstream) where a temporary creek crossing (railroad flatcar bridge or other temporary structure) will be constructed to reduce the detour distance.

KEY FEATURES

- CIP P/T Flat Slab Bridge Spanning Full Channel Width
- Designed for 100-year Flood
- Improved Channel Hydraulics
- 100% Federally Funded
- Existing One-Lane Bridge Replaced with Two-Lane Bridge
- Ave 392 Temp Creek Crossing

BRIDGE DATA

Bridge Type: Concrete Flat Slab
Span Config: 3@ 54-ft, 2@43ft
Length: 250-feet
Width: 35.5-feet

PROJECT FUNDING

HBP:	\$3,515,000
Toll Credits:	\$455,000
Total:	\$3,970,000

SCHEDULE

Preliminary Engineering:
Fall 2012 - Summer 2015

Construction:
Winter 2015 - Spring 2016

